SECTION 13 34 29
PREFABRICATED GUARD BOOTH

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section covers materials, labor and equipment required to complete the prefabricated guard booth shown and specified.

B. System Description: Prefabricated Guard Booth shall be a single unit of welded steel construction and to be shipped completely assembled.

1.2 RELATED WORK

A. A. Section 01 81 13: SUSTAINABLE DESIGN REQUIREMENTS. Section 01 81 13, SUSTAINABLE DESIGN REQUIREMENTS for additional LEED requirements.

B. Section 01 81 19, INDOOR AIR QUALITY REQUIREMENTS for VOC limit.

C. Color of prefabricated guard booth: Section 09 06 00, SCHEDULE FOR FINISHES.

D. Concrete curbs and foundations: Section 03 30 00, CAST-IN-PLACE CONCRETE.

E. Electrical, Division 26, ELECTRICAL.

1.3 MANUFACTURERS QUALIFICATIONS

A. Approval by Contracting Officer is required of products or service of proposed manufacturer, suppliers and installers, and will be based upon submission by Contractor of certification that:

B. Manufacturer regularly and presently manufactures prefabricated guard booths as specified as one of its principal products.

C. Installer has technical qualifications, experience, trained personnel and facilities to install specified items. Approval will not be given, however, where experience record is one of unsatisfactory performance.

D. Manufacturer's product submitted has been in satisfactory and efficient operation on three installations similar and equivalent to this project for three years. Submit list of installations.

1.4 DESIGN CRITERIA

A. The drawings indicate sizes, profiles, and dimensional requirements of the pre-engineered metal building system. Metal building systems having equal performance characteristics with deviation from indicated dimensions and profiles may be considered, provided deviations do not change the design concept or intended performance. The burden of proof for equality is on the proposer.

B. SYSTEM PERFORMANCE REQUIREMENTS:

1. General: Engineer, design, fabricate and erect the prefabricated guard booth to withstand loads from winds, gravity, structural movement including movement thermally induced, and to resist in-service use conditions that the building will experience, including exposure to the weather, without failure.
   a. Design each member to withstand stresses resulting from combinations of loads that produce the maximum allowable stresses in that member as prescribed in MBMA Design Practices Manual.
2. Design Loads: Basic design loads, as well as auxiliary and collateral loads.
3. Basic design loads include live load, wind load, and seismic load, in addition to the dead load.
4. Regulatory Requirements: Conform to IBC 2006.
5. Factory installed electrical devices shall be UL listed and conform to the National Electric Code.

1.5 SUBMITTALS

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, furnish the following:

B. Product Data: consisting of prefabricated guard booth manufacturer=s product information for building components and accessories.

C. Shop drawings for prefabricated guard booth shall include elevations, sections, floor plan, and anchor clip detail, system components and accessories.

D. LEED Submittals:
   1. Credits MR 4.1 & 4.2: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.
      a. Include statement indicating costs for each product containing recycled content.
   2. Credits MR 5.1 & 5.2: For products manufactured within 500 miles of project site *and* whose raw materials are extracted, harvested or recovered, within 500 miles of the project site, documentation indicating the location and distance of material manufacturer and point of extraction, harvest, or recovery for each raw material from the Project site.
      a. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.

1.6 STORAGE AND PROTECTION

A. Deliver prefabricated guard booth as a single unit so it will not be damaged or deformed.

B. Handling: Exercise care in unloading, storing and erecting unit to prevent bending, warping, twisting, and surface damage.

1.7 WARRANTY

A. Prefabricated guard booths shall be warranty against defects in materials and workmanship, and that after erection completed work shall be weather tight and shall be subject to the terms of the "Warranty of Construction" Article in Section 00 72 00, GENERAL CONDITIONS, except that the warranty period shall be two years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

A. Manufacturers offering products, subject to compliance herewith which may be incorporated in the Work include, but are not necessarily limited to the following:

1. Porta-King Building Systems (Basis for Design Guide)
   4133 Shoreline Drive
   Earth City, MO 63045
   T: 800-284-5346
   F: 1-314-291-2857
   W: www.portaking.com
2. PAR-CUT International, Inc.
   40961 Production Drive
   Harrison Township, MI 48045
   T: 1-800-394-6599
   F: 586-463-6059
   W: www.parkut.com
   E: sales@parkut.com
3. B.I.G. Enterprises, Inc.
   9702 East Rush Street
   South El Monte, CA 91733-1730
   T: 1-800-669-1449
   F: 626-448-3598
   W: www.bigbooth.com
   E: info@bigbooth.com
4. CID Associates, Inc.
   730 Keaston Road (Route 228)

Sarver, PA 16055
T: 724-353-0300
F: 724-353-0308
W: www.cidbldgs.com
E: sales@cidbldgs.com

5. Little Buildings, Inc.
161 Shafer Drive
Romeo, MI 48065-4913
T: 810-752-7100
F: 810-752-7108
W: http://home.msen.com
E: little@home.msen.com

2.2 MATERIALS

A. Recycled Content of Steel Products: Provide steel products with minimum 25% post-consumer recycled content.

2.3 COMPONENTS

A. MODEL NO.: DURASTEEL MODEL DA 75SL

B. Product Construction:

1. Building shall be of welded steel construction with all intersecting welded connections ground smooth. Overall height to be as indicated on Drawings.
2. Structural corners and uprights to be 2” x 2” x .120 structural ASTM A500 Grade B welded tubing.

C. Wall and Ceiling Panels:

1. Wall panels shall be 14 gauge galvanized steel on exterior and 16 gauge galvanized steel on interior.
2. Overall wall thickness shall be 2”.
3. Ceiling to be 14 gauge galvanized steel, painted to match total building.
4. Provide R-10 wall insulation and R-19 ceiling insulation.

D. Finish:

1. Exterior surfaces of steel walls and corners shall be full flush, smooth, and unbroken by visible seams or caulked joints (any visible seam is not acceptable).
2. Interior wall surfaces shall be flush, smooth welded construction with no exposed fasteners.

3. Interior and exterior surfaces shall be electrostatically painted with rust inhibitive epoxy primer and shall have a finish coat of air-dry industrial acrylic paint.
4. Building to be painted one color, as selected from acrylic finishes.
5. Provide brick finish from windowsill down.

E. Floor Structure:
1. Floor structure to be an integral part of the building with 1-1/2 inch solid waterproofing insulating core fit tight against panels and fastened to bottom structural base frame.
2. Finished floor shall be 3003 Treadbrite safety treadplate floor covering.

F. Doors:
1. Doors to be of anodized aluminum, 1-3/4 inch tubular construction and half-glazed.
2. Bottom portion to include panel finish to match interior and exterior building walls.
3. Sliding door to be ceiling suspended in overhead track assembly and shall be fully weather-stripped. Sliding doors shall incorporate a maximum-security laminated hook bolt deadlock with removable cylinders.

G. Windows and Glazing:
1. Windows shall have anodized aluminum frames and inserts and to be industrial quality with active window panel to slide horizontally on stainless steel, ball-bearing rollers (plastic rollers are not acceptable).
2. Windows to include inside positive locking device.
3. Exterior window sill height to be 38 inches (inside sill height 34 inches from finished floor).
4. Windows to be glazed with 3/16 inch clear tempered safety glass.

H. Counter:
1. Furnish 22” deep, full width stainless steel counter, per plans, 32” above finished floor.
2. Provide a steel storage drawer with lock.

I. Electrical:
1. Electrical service to include single phase, 100 amp capacity load center, pre-wired in conduit, with one 230v circuit and four 115v circuit capacity.
2. Provide two spare circuits.

3. Conduits to be recessed in walls and electrical boxes and fixtures surface mounted.
4. All electric work shall be in compliance with the National Electrical Code.
5. All electrical components shall bear the UL label.
6. Furnish one 115v duplex outlet, and one 230v single outlet.
7. Lights to be fluorescent type fixture with acrylic lens and wall switch.
8. One Thru-Wall HVAC unit, 230V, 9,900C/11,600H BTU.
9. One additional 115v duplex outlets.
10. Two empty conduit runs with pull wire to run communication lines.

J. Exterior Roof:

1. Provide an expanded metal pitched roof measuring 24 inches tall constructed of 3/4 inch by #9 flat expanded metal material with 5 inch overhang and 6” high metal fascia.
2. Kynar/Hylar roof finish with manufacturer’s standard color selection.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions with installer present.

B. Examine location of primary electrical service prior to building installation.

3.2 INSTALLATION

A. Install Prefabricated Guard Booth on flat, level, properly cured concrete slab.

B. Install in accordance with the manufacturer’s written instructions and placement drawings.

3.3 ADJUSTING

A. Verify unit is anchored and level.

3.4 CLEANING

A. Leave unit in clean, ready-to-use condition acceptable to Architect.

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